

Notulae to the Italian native vascular flora: 14

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Abstract

In this contribution, new data concerning the distribution of native vascular flora in Italy are presented. It includes new records, confirmations, and status changes to the Italian administrative regions. Nomenclatural and distribution updates, published elsewhere, and corrigenda are provided as Suppl. material 1.

Keywords

Endemic taxa, Floristic data, Italy

How to contribute

The text for the new records should be submitted electronically to Lorenzo Lastrucci (lorenzo.lastrucci@unifi.it). The corresponding specimen along with its scan or photograph have to be sent to FI Herbarium: Sezione di Botanica “Filippo Parlatore” del Museo di Storia Naturale, Via G. La Pira 4, 50121 Firenze (Italy). Those

texts concerning nomenclatural novelties (typifications only for accepted names), exclusions, and confirmations should be submitted electronically to: Fabrizio Bartolucci (fabrizio.bartolucci@gmail.com). Each text should be within 1,000 characters (spaces included).

Floristic records of native taxa

Arabis auriculata Lam. (Brassicaceae)

+ **EMR**: Montecopiolo (Rimini), versante SE del Monte San Marco (WGS84: 43.848287°N, 12.347453°E), prati con roccia calcarea affiorante, 1100 m s.l.m., 30 April 2022, *T. Bruschi, M. Magrini, L. Menghi, L. Polverelli* (FI). – Species new for the flora of Emilia-Romagna.

M. Magrini, L. Menghi, L. Polverelli

Cytisus infestus (C.Presl) Guss. subsp. *infestus* (Fabaceae)

+ **PIE**: Alto (Cuneo), sotto Strada Provinciale 216, arbusteti misti a roverella e ginestre (WGS84: 44.110861°N, 7.994028°E), 730 m, 19 September 2021, *M. Lonati, G. Nota, D. Barberis* (FI). Species new for the flora of Piemonte.

Some fully developed individuals were found in a scrubland dominated by Mediterranean species, mainly *Osyris alba* L., recently reported for the same study area (Bartolucci et al. 2020).

M. Lonati, G. Nota, D. Barberis

Dracunculus vulgaris Schott (Araceae)

+ **UMB**: Perugia (Perugia), Monte di Lacugnano, esposizione SW (WGS84: 43.098312°N, 12.331790°E), ambiente aperto e cespugliato della macchia mediterranea con affioramenti rocciosi, substrato calcareo, 440 m s.l.m., 25 May 2021, *C. Longo, S. Vitale, P. Salerno* (UTV No. 38891). – Species confirmed for the flora of Umbria.

This species, recorded in the past in Umbria at Colle della Trinità (Batelli 1888) and at Isola Maggiore, Lake Trasimeno (Cicioni 1895), is currently considered as doubtfully occurring in Umbria (Bartolucci et al. 2018). The population identified at Parco di Monte Lacugnano, consists of about ten plants distributed on a surface of approximately 4,000 m².

C. Longo, S. Vitale, P. Salerno

Elatine hexandra (Lapierre) DC. (Elatinaceae)

+ **C SAR**: Vena Limbara, Calangianus (Sassari), (WGS84: 40.862781°N, 9.262080°E), margini dei laghetti di cava e zone umide limitrofe, 500 m, 26 August 2022, *G. Calvia, A. Lallai* (FI, CAG). – Cryptogenic species new for the flora of Sardegna.

Elatine hexandra is a holarctic species, typical of temporarily flooded sites, which is widespread in western and north-western Europe, but becomes rare eastwards, in southern and eastern European countries (Popiela et al. 2011). In Italy, this species is recorded as cryptogenic for Piemonte, Lombardia, Veneto, and Emilia-Romagna (Bartolucci et al. 2018). In the Mediterranean islands, this species was previously recorded only for Corsica, where it has been considered native (Fichot et al. 2015; Delage and Hugot 2020). We report its presence in an area of northern Sardinia where it colonises the shores of several semi-natural lakes formed after the abandonment of granite quarries.

G. Calvia, A. Lallai

***Erodium alnifolium* Guss. (Geraniaceae)**

+ **MAR:** Monte Grimano Terme (Pesaro e Urbino), loc. Seriole (WGS84: 43.872045°N, 12.463668°E), sentiero sterrato, 587 m, 16 June 2022, *F. Santi* (FI). – Species new for the flora of Marche.

F. Santi

***Erodium salzmannii* Delile (Geraniaceae)**

+ **TOS:** Scarlino (Grosseto), Podere il Bersagliere (WGS84: 42.871241°N, 10.997414°E), pratelli aridi, 45 m, 30 April 2022, leg. *L. Pinzani*, det. *L. Peruzzi*, *L. Pinzani* (FI, *Herb. Pinzani*). – Species confirmed for the flora of Toscana.

Erodium salzmannii was ascertained so far only for Sardegna, while it has been doubtfully reported for Toscana (Bartolucci et al. 2018) based on a single record for the island of Elba (Carta et al. 2018 and literature cited therein). Our finding represents the first record for peninsular Italy.

L. Pinzani, L. Peruzzi

***Euphorbia segetalis* L. (Euphorbiaceae)**

+ **EMR:** Lugo (Ravenna) (WGS84: 44.410317°N, 11.931492°E), ambienti ruderali, 12 m s.l.m., 23 January 2022, leg. *T. Fiaschi*, det. *T. Fiaschi*, *E. Fanfarillo* (FI, SIENA). – Species new for the flora of Emilia-Romagna.

Euphorbia segetalis is a Mediterranean species considered native in many administrative regions of peninsular Italy and in Liguria, while it is recorded as a regional alien in Friuli Venezia-Giulia and Lombardia (Bartolucci et al. 2018). Given its synanthropic character as a weed of crops and ruderal sites (Fanfarillo et al. 2020), we consider it native in Emilia-Romagna.

T. Fiaschi, E. Fanfarillo, C. Angiolini

***Ferulago galbanifera* (Mill.) W.D.J.Koch (Apiaceae)**

+ **PUG:** Gravina in Puglia (Bari), Parco Nazionale dell'Alta Murgia loc. Pulicchio di Gravina, pratelli steppici su rupi calcaree (WGS84: 40.905522°N, 16.424333°E),

553 m, 12 May 2018, leg. *G. Buccomino*, det. *G. Buccomino*, *R.P. Wagensommer* (FI); *ibidem*, 4 July 2022 (fruit), leg. *G. Buccomino*, det. *G. Buccomino*, *R.P. Wagensommer* (FI); Candela (Foggia) loc. Pietra Longa sperone roccioso in prossimità della Strada Provinciale 99 (WGS84: 41.121125°N, 15.496817°E), 354 m, 6 July 2022, leg. *G. Buccomino*, det. *G. Buccomino*, *R.P. Wagensommer* (FI). – Species confirmed for the flora of Puglia.

Ferulago galbanifera was reported as no longer recorded by Bartolucci et al. (2018) based on the records of Palanza (1900) and Bianco (1962) in Pulicchio di Gravina. We hereby confirm the occurrence of this species with few individuals, growing together with *Athamanta sicula* L. and *Anisantha rubens* (L.) Nevski. In Puglia it is also present and very abundant on the rocky spur of Pietra Longa (Candela).

G. Buccomino, R.P. Wagensommer

***Hypecoum imberbe* Sm. (Papaveraceae)**

+ **BAS:** Matera (Matera), Piano di Trasano - Conca d'Aglio, margini di campo di cereali (WGS84: 40.65247312°N, 16.65746037°E), 500 m, 3 May 2022, *A. Selvaggi*, *G. Salerno* (FI, *Herb. Selvaggi*). – Species new for the flora of Basilicata.

G. Salerno, A. Selvaggi

***Ipomoea imperati* (Vahl) Griseb. (Convolvulaceae)**

+ **CAM:** Bacoli (Napoli), spiaggia in corrispondenza del Lago Fusaro (WGS84: 40.829972°N, 14.048093°E), dune embrionali, 0 m, 16 October 2018, *M. De Matteis Tortora* et *S. Gaudino* (NAP barcode NAP0000611); Bacoli (Napoli), Lido "Papel Beach" (WGS84: 40.830894°N, 14.0408081°E), 0 m, limite della zona afitica a ridosso dello stabilimento balneare, 14 September 2022, *E. Del Guacchio*, *M. De Matteis Tortora*, *B. Menale*, *M. Spena* (*Herb. Del Guacchio*); Pozzuoli (Napoli), spiaggia in corrispondenza del Monte di Cuma, arenile (WGS84: 40.849032°N, 14.047468°E), 1 m, 26 September 2018, *M. De Matteis Tortora*, *L. Pellegrini*, *S. Gaudino* (NAP barcode NAP0000612); *ibidem*, 14 September 2022, *E. Del Guacchio* et *M. De Matteis Tortora* (*Herb. Del Guacchio*). – Status change and species confirmed for the flora of Campania.

This species is widespread along the tropical and subtropical coasts of the world (WCSP 2022), and it is usually regarded as native to Europe and Italy (e.g., POWO 2022). Data from Cennamo et al. (2013) strongly support its native status in Italy. In addition, this species was first described for the surroundings of Naples since the end of the 16th century, where it later became extinct (Migliorato 1896). The other localities discovered by M. Tenore and G. Gussone in Ischia Island disappeared in the 1970s, and an ancient indication for the island of Capri is doubtful (Ricciardi 1998). The new localities are the northernmost of the range; sadly, the first listed site has been destroyed, whereas the other two are constituted by a single or few individuals.

M. De Matteis Tortora, E. Del Guacchio, P. Caputo

***Lagurus ovatus* L. subsp. *nanus* (Guss.) Messeri (Poaceae)**

+ **SAR:** La Maddalena (Sassari), Abbatoggia (WGS84: 41.247864°N, 9.401394°E), 2 m, 13 June 2022, *M. Fois*, *A. Cuena-Lombrana*, *G. Bacchetta* (FI, CAG); Budoni (Nuoro), Pineta Sant'Anna (WGS84: 40.698212°N, 9.723101°E), 1 m s.l.m., 14 June 2022, *M. Fois*, *G. Bacchetta* (CAG). – Subspecies new for the flora of Sardegna.

M. Fois, *A. Cuena-Lombrana*, *G. Bacchetta*

***Maresia nana* (DC.) Batt. (Brassicaceae)**

+ **ABR:** Marina di Vasto (Chieti), Lido del Sole 57 (WGS84: 42.342290°N, 13.429072°E), margine stradale e terreno sabbioso, 3 m, 31 March 2022, leg. *D. C. Palermo*, det. *D. C. Palermo*, *D. Longo*, *F. Bartolucci*, *F. Conti* (APP No. 66131, FI). – Species confirmed for the flora of Abruzzo.

This species was reported by Zodda (1954) for Pineto and never confirmed thereafter.

D.C. Palermo, *D. Longo*, *F. Bartolucci*, *F. Conti*

***Mentha microphylla* K.Koch (Lamiaceae)**

+ **CAL:** Condofuri (Reggio Calabria), Amendolea (WGS84: 37.986869°N, 15.896327°E), bordo strada vicino a una fonte, 158 m, 21 August 2022, leg. *F. D'Aleo*, det. *F. D'Aleo*, *V.L.A. Laface*, *C.M. Musarella*, *G. Spampinato* (REGGIO, FI). – Species confirmed for the flora of Calabria.

This species was first reported in Calabria by Pignatti (1982) and recently regarded as no longer recorded by Bartolucci et al. (2018).

F. D'Aleo, *V.L.A. Laface*, *C.M. Musarella*

***Ornithogalum kochii* Parl. subsp. *monticola* (Jord. & Fourr.) Peruzzi (Asparagaceae)**

+ **EMR:** Monte Bosco della Torre (Parma), prato arido di cresta (WGS84: 44.778404°N, 9.902368°E), 525 m, 2 May 2017, leg. *M. Adorni*, det. *L. Peruzzi* (FI). – Subspecies new for the flora of Emilia-Romagna.

M. Adorni

***Orobanche pubescens* d'Urv. (Orobanchaceae)**

+ **CAL:** Cirò (Crotone), località Favare (WGS84: 4360737°N, 675456.00°E), 300 m a ovest della centrale su *Trifolium repens*, 361 m, 26 April 2022, leg. *G. De Fine*, det. *N.G. Passalacqua* et *G. Domina* (FI). – Species confirmed for the flora of Calabria.

This species was reported by Domina and Peruzzi (2010) based on a specimen housed in FI collected by Fiori (08 July 1899) on Monti di Paola (Cosenza).

N.G. Passalacqua, *G. De Fine*, *G. Domina*

***Prunus avium* (L.) L. (Rosaceae)**

+ **MAR.** – Status change from naturalized to native for the flora of Marche.

+ **UMB.** – Status change from naturalized to native for the flora of Umbria.

In Italy, this species is generally considered as a native plant, except for Marche, Umbria, Sicily, and Sardinia where it was reported as alien (Bartolucci et al. 2018; Stinca et al. 2021). The status of naturalized alien for populations in Umbria and Marche is not sustainable. In fact, there are no natural, geographical, or environmental barriers nor geo-pedological discontinuities allowing to consider these populations differently from those of the surrounding regions.

G. Mei, A. Stinca

***Ranunculus rionii* Lagger (Ranunculaceae)**

+ **FVG:** Staranzano (Gorizia), zona deltizia del fiume Isonzo (WGS84: 45.5067862°N, 13.383342°E) (OGU 10247/1), pozze temporanee fungenti da morfologie di impluvio, incluse in lembi di prateria sortumosa in contatto con gli ambienti acquitrinosi subsalsi della foce fluviale, 0 m s.l.m., 5 May 2021, G. Bertani (FI). – Species new for the flora Friuli Venezia-Giulia.

G. Bertani

***Scorzonera laciniata* L. subsp. *laciniata* (Asteraceae)**

+ **PUG:** Agro di Gravina in Puglia (Bari), substrato limoso-argilloso del vulcanello di Gravina in Puglia (WGS84: 40.702918°N, 16.428803°E), 210 m s.l.m, 27 April 2022, M. Terzi, F.S. D'Amico (FI). – Subspecies confirmed for the flora of Puglia.

This taxon was recorded for Puglia by Béguinot (1910 sub *S. laciniata* subsp. *tenorei*) and Fiori (1928 sub *S. laciniata* var. *tenorei*) and later regarded as doubtfully occurring in this administrative region by Bartolucci et al. (2018).

M. Terzi, F.S. D'Amico

***Securigera cretica* (L.) Lassen (Fabaceae)**

+ **TOS:** Massarosa (Lucca) prima della Chiesa di Pieve a Elici, salendo (WGS84: 43.885224°N, 10.334922°E), uliveti, 130–150 m circa, 20 April 2022, B. Pierini (FI); San Casciano in Val di Pesa (Firenze), tra Villa il Poggiale e Castellaccio (WGS84: 43.664830°N, 11.162710°E), oliveto, 275 m, 25 April 2022, L. Pinzani (FI, *Herb. Pinzani*); Empoli (Firenze) antico meandro dell'Arno tra Arnovecchio e Fibbiana (WGS84: 43.729975°N, 10.985395°E), prati mesofili, 20 m, 15 May 2022, L. Peruzzi (FI). – Species new for the flora of Toscana.

B. Pierini, L. Pinzani, L. Peruzzi

***Sedum caespitosum* (Cav.) DC. (Crassulaceae)**

+ **CAM:** Padula (Salerno), presso Volta Cammino (WGS84: 43.304500°N, 15.639680°E), strada sterrata, 480 m, 23 Apr 2022, *L. Pinzani* (FI). – Species confirmed for the flora of Campania.

To the best of our knowledge, *S. caespitosum* was reported for Naples by De Rosa (1906). The species forms a small population along a country road.

L. Pinzani, A. Stinca

***Sporobolus virginicus* (L.) Kunth (Poaceae)**

+ **LIG:** Pietra Ligure (Savona), lungomare a valle della ferrovia (WGS84: 44.143735°N, 8.274991°E), margine erboso, 5 m, no exp., 29 August 2022, *G. Galasso* (FI, MSNM barcode MSNM52009). – Species confirmed for the flora of Liguria.

G. Galasso

***Tofieldia calyculata* (L.) Wahlenb. (Tofieldiaceae)**

+ **LAZ:** Amatrice (Rieti), Monti della Laga, Loc. Fosso Pelone (WGS84: 42.635833°N, 13.394444°E), within a system of temporary flooded ponds along a stream bank NNW, 1650 m a.s.l., 22 July 2022, *F. Di Pietro, R. Di Pietro* (FI, HFLA). – Species new for the flora of Lazio.

F. Di Pietro, R. Di Pietro

***Ulmus laevis* Pallas (Ulmaceae)**

+ **VDA:** Châtillon (Aosta), destra idrografica Dora Baltea, area alluvionale, sotto Ussel (WGS84: 45.74430834°N, 7.63023532°E), 432 m, 24 July 2022, *A. Selvaggi* (FI, AO); Saint-Vincent (Aosta), fraz. Tensoz, sx idrografica della Dora Baltea, bosco alluvionale (WGS84: 45.74347847°N, 7.64188723°E), 424 m, 6 August 2022, *A. Selvaggi* (FI, *Herb. Selvaggi*); Saint-Vincent (Aosta), fraz. Toux, sx idrografica della Dora Baltea, a monte ponte autostrada, bosco alluvionale (WGS84: 45.74406°N, 7.63454°E), 425 m, 6 August 2022, *A. Selvaggi* (FI, *Herb. Selvaggi*). – Species new for the flora of Valle d'Aosta.

Ulmus laevis is considered by Bartolucci et al. (2018) as a cryptogenic species in Piemonte and as naturalized alien elsewhere in Italy. As recently proposed by Torre et al. (2022), the native and relictual presence of the species in Piemonte and Lombardia has been definitely proven. The presence of *U. laevis* in alluvial woods along the Dora Baltea river is documented in Piemonte (R. Benetti and A. Selvaggi, pers. obs.). For this reason, its presence in Valle d'Aosta in alluvial woody areas along the Dora Baltea, consistent with the natural habitat of the species, should be considered native and relictual, too.

A. Selvaggi

***Valerianella echinata* (L.) DC. (Valerianaceae)**

+ **BAS**: Matera (Matera), Piano di Trasano - Conca d'Aglio, margini di campo di cereali (WGS84: 40.65247312°N, 16.65746037°E), 500 m, 3 May 2022, *A. Selvaggi*, *G. Salerno* (FI, *Herb. Selvaggi*). – Species new for the flora of Basilicata.

A. Selvaggi, G. Salerno

***Viola canina* L. subsp. *canina* (Violaceae)**

+ **CAL**: Serra S. Bruno (Vibo Valentia), contrada Chiusa della Madonna (WGS84: 38.56782°N, 16.32388°E), incolto erboso, ai bordi di un orto, terreno leggermente acido Ph 6, derivante dal disfaccimento dei graniti, 820 m, 22 May 2022, leg. *G. Pisani*, det. *G. Pisani*, *F. Conti* (APP Nos 66134, 66135, FI). – Species confirmed for the flora of Calabria.

This record is new to southern Italy and represents the southernmost finding in Italy.

G. Pisani, F. Conti

Floristic records of regional alien taxa***Allium schoenoprasum* L. subsp. *schoenoprasum* (Amaryllidaceae)**

+ (CAS) **CAM**: Altavilla Silentina (Salerno), loc. Cerrelli, base di un muretto in cemento lungo la SP 174 (WGS84: 40.52963°N, 15.10561°E), 55 m, 19 June 2022, *E. Del Guacchio* et *E. Del Guacchio* (FI, *Herb. Del Guacchio*). – Casual alien species new for the flora of Campania.

The collected specimens derived from a single large clump, doubtless originated by seed dispersion.

E. Del Guacchio

***Barbarea verna* (Mill.) Asch. (Brassicaceae)**

+ (CAS) **VEN**: San Giovanni Lupatoto (Verona): località Fossa Contarina, Pontoncello, lungo la sponda sx del fiume Adige (WGS84: 45.38077973°N, 11.06688125°E), depositi ghiaioso/sabbiosi del fiume, un solo esemplare, 33 m, 2 May 2022, leg. *F. Menini*, det. *F. Menini*, *F. Prosser* (FI). – Casual regional species new for the flora of Veneto.

F. Menini, F. Prosser, S. Andreatta

***Bellevalia romana* (L.) Sweet (Asparagaceae)**

+ (CAS) **TAA**: Levico Terme (Trento), scarpata incolta lungo la strada S.P. 11 di Levico Terme per Vetriolo (WGS84: 46.021434°N, 11.301593°E), 759 m a.s.l., esposizione S, 10 April 2022, *F. Valentini* (FI). – Casual regional species new for the flora of Trentino-Alto Adige.

F. Valentini, F. Prosser, G. Bonari

***Buxus sempervirens* L. (Buxaceae)**

+ (CAS) **PUG**: Bitonto (Bari), Bosco Marinelli, nei pressi di Palombaio, Bosco a *Quercus pubescens* (WGS84: 41.076209°N, 16.581418°E), 200 m, 07 May 2022, leg. G. Pazienza, det. L. Forte, G. Pazienza, V. Cavallaro (FI, BI Nos. 56937, 56938, 56939). – Casual regional alien species new for the flora of Puglia.

Buxus sempervirens is confirmed for southern Italy only in Campania, while is reported as doubtfully occurring in Basilicata (Bartolucci et al 2018). It was introduced at Bosco Marinelli in the 19th century, as testified by a specimen in BI [Bitonto (Bari), 28 March 1898, A. Palanza (BI No. 46639)] and by Sallustio (1950). This species currently occurs, scattered in a *Q. pubescens* wood, also with young individuals clearly born from seed.

G. Pazienza, L. Forte, V. Cavallaro

***Capparis sicula* Veill. (Capparaceae)**

+ (CAS) **LOM**: Milano (Milano), Parco del Ticinello, Cascina Campazzo, muro esterno sul lato S (WGS84: 45.426468°N, 9.181718°E), muro, 109 m, SSE, 15 June 2022, G. Galasso (FI); *ibidem*, 3 July 2022, G. Galasso (MSNM barcodes MSNM51987, MSNM51988). – Casual regional alien species confirmed for the flora of Lombardia.

Capparis sicula was doubtfully reported by Cesati (1844) and by Rota (1853) for the walls of Bergamo, where it was, thereafter, no longer observed. Only a single very luxuriant individual was found.

G. Galasso

***Cynara cardunculus* L. subsp. *cardunculus* (Asteraceae)**

+ (CAS) **TAA**: Torcegno (Trento), a monte di Auseri (WGS84: 46.067450°N, 11.455435°E; CFE: 9934/2), margine stradina, un paio di esemplari sterili avventizi, 750 m, 14 May 2020, leg. F. Prosser, I. Lopresti, det. F. Prosser (FI). – Casual regional alien species new for the flora of Trentino-Alto Adige.

F. Prosser

***Euphorbia pterococca* Brot. (Euphorbiaceae)**

+ (CAS) **LOM**: Bergamo (Bergamo), Via San Sebastiano (WGS84: 45.712196°N, 9.640030°E), spigolo tra la strada e il muro, 410 m, S, 16 June 2022, E. Banfi (FI, MSNM barcode MSNM51881). – Casual regional alien species new for the flora of Lombardia.

Only a single individual was found.

E. Banfi

Narcissus pseudonarcissus* L. subsp. *pseudonarcissus

+ (CAS) **CAL**: Molochio (Reggio Calabria), Strada Provinciale, Trepitò (WGS84: 38.287534°N, 16.043408°E), bordo strada, 965 m, 2 May 2022, leg. A. Morabito, det. V.L.A. Laface, A. Morabito, C.M. Musarella, G. Spampinato (FI, REGGIO).

The few individuals observed probably escaped cultivation or were thrown among the waste materials of nearby gardens where they are commonly cultivated as ornamental plants.

V.L.A. Laface, A. Morabito, G. Spampinato

***Vicia pannonica* Crantz subsp. *pannonica* (Fabaceae)**

+ (CAS) **LAZ**: Anagni (Frosinone), in Via Ciammotte (WGS84: 41.713301°N, 13.198894°E), margine di campi, 250 m, 14 May 2022, leg. E. De Santis, det. E. De Santis, F. Bartolucci (APP Nos 66132, FI, MSNM). – Casual regional alien species new for the flora of Lazio.

E. De Santis, F. Bartolucci

Nomenclatural and distribution updates from other literature sources, and corrigenda

Nomenclatural, distribution and status updates, and corrigenda to Bartolucci et al. (2018) and subsequent updates summarised in the Portal to the Flora of Italy (2022) are provided in Suppl. material 1.

F. Bartolucci, G. Galasso

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References

Bartolucci F, Peruzzi L, Galasso G, Albano A, Alessandrini A, Ardenghi NMG, Astuti G, Bacchetta G, Ballelli S, Banfi E, Barberis G, Bernardo L, Bouvet D, Bovio M, Cecchi L, Di Pietro R, Domina G, Fascetti S, Fenu G, Festi F, Foggi B, Gallo L, Gottschlich G, Gubellini L, Iamónico D, Iberite M, Jiménez-Mejías P, Lattanzi E, Marchetti D, Martinetto E, Masin RR, Medagli P, Passalacqua NG, Peccenini S, Pennesi R, Pierini B, Poldini L, Prosser F, Raimondo FM, Roma-Marzio F, Rosati L, Santangelo A, Scoppola A, Scortegagna S, Selvaggi A, Selvi F, Soldano A, Stinca A, Wagensommer RP, Wilhalm T, Conti F (2018) An

- updated checklist of the vascular flora native to Italy. *Plant Biosystems* 152(2): 179–303. <https://doi.org/10.1080/11263504.2017.1419996>
- Bartolucci F, Domina G, Andreatta S, Angius R, Ardenghi NMG, Bacchetta G, Ballelli S, Banfi E, Barberis D, Barberis G, Bernardo L, Bertolli A, Bonari G, Bovio M, Briozzo I, Buccomino G, Calvia G, Chianese G, Cibeï C, Conti F, Copez M, Crisanti A, Dagnino D, Di Filippo A, Esposito A, Fanni S, Festi F, Forte L, Galasso G, Gentili R, Gottschlich G, Lattanzi E, Liguori P, Locci MC, Longo D, Lonati M, Lucchese F, Marchetti D, Mariotti MG, Menini F, Minuto L, Orrù G, Pala ML, Passalacqua NG, Pellegrino M, Pennesi R, Peruzzi L, Pinzani L, Pirastru G, Prosser F, Ravetto Enri S, Roma-Marzio F, Russo G, Scopola A, Silletti G, Stinca A, Toffolo C, Tomaselli V, Tondi G, Trenchi M, Turcato C, Nepi C (2020) Notulae to the Italian native vascular flora: 9. *Italian Botanist* 9: 71–86. <https://doi.org/10.3897/italianbotanist.9.53429>
- Batelli A (1888) Flora umbra: terza contribuzione. *Annali dell'Università libera di Perugia Anno III 1887–1888*, II: 29–46.
- Béguinot A (1910) La vegetazione delle isole Tremiti e dell'isola di Pelagosa: studio fitogeografico. *Memorie di matematica e di fisica della Società Italiana delle Scienze* 16: 155–222
- Carta A, Forbicioni L, Frangini G, Pierini B, Peruzzi L (2018) An updated inventory of the vascular flora of Elba Island (Tuscan Archipelago, Italy). *Italian Botanist* 6: 1–22. <https://doi.org/10.3897/italianbotanist.6.26568>
- Cennamo P, Del Guacchio E, Paino L, De Castro O, Menale B, Vázquez-Torres M, Caputo P (2013) Genetic structure of *Ipomoea imperati* (Convolvulaceae) in the Mediterranean region and implications for its conservation. *Phytotaxa* 141(1): 40–54. <https://doi.org/10.11646/phytotaxa.141.1.3>
- Ceasati V (1844) Flora. In: Cattaneo C (Ed.) *Notizie naturali e civili su la Lombardia*, Vol. 1. G. Bernardoni di Giovanni, Milano, 259–326.
- Cicioni G (1895) La flora del Trasimeno: osservazioni generali. Tipografia Santucci, Perugia.
- Delage A, Hugot L (2020) *Atlas biogéographique de la flore corse*. Albiana, Office de l'environnement de la Corse, 188 pp.
- De Rosa F (1906) Contributo alla flora murale e ruderale di Napoli. *Bollettino della Società di Naturalisti di Napoli* 19: 219–238.
- Domina G, Peruzzi L (2010) Notula 1634. *Orobanche pubescens* d'Urv. (Orobanchaceae) In: Nepi C, Peccenini S, Peruzzi L (Eds) *Notulae alla Checklist della flora italiana: 9*. *Informatore Botanico Italiano* 42(1): 372–373.
- Fanfarillo E, Latini M, Iberite M, Bonari G, Nicoletta G, Rosati L, Salerno G, Abbate G (2020) The segetal flora of winter cereals and allied crops in Italy: species inventory with chorological, structural and ecological features. *Plant Biosystems* 154(6): 935–946. <https://doi.org/10.1080/11263504.2020.1739164>
- Fichot P, Imbaud E, Taxil F-X (2015) *Elatine hexandra* (Lapierre) DC. In: Jeanmonod D (Ed.) *Notes à la flore de Corse*, XXV. *Candollea* 70(1): 129. <https://doi.org/10.15553/c2015v701a10>
- Fiori A (1928) *Nuova flora analitica d'Italia*, Vol. 2(6). Tipografia M. Ricci, Firenze.
- Migliorato, E. (1896) Osservazioni relative alla flora napoletana. *Nuovo Giornale Botanico Italiano*, n. s. 3: 168–171.

- Pignatti S (1982) Flora d'Italia, Vol. 2. Edagricole, Bologna.
- Popiela A, Lysko A, Wieczorek A, Nalepka D (2011) The distribution of *Elatine hexandra* (Lapierre) DC. (Elatinaceae). Acta Societatis Botanicorum Poloniae 80(1): 27–32. <https://doi.org/10.5586/asbp.2011.004>
- Portal to the Flora of Italy (2022) Portale della Flora d'Italia/Portal to the Flora of Italy. 2022.1. <https://dryades.units.it/floritaly/> [Accessed 17.11.2022]
- POWO (2022) Plants of the World Online. Facilitated by the Royal Botanic Gardens, Kew. Published on the Internet. <http://www.plantsoftheworldonline.org/> [Accessed 15.09.2022]
- Ricciardi M (1998) Flora di Capri (Golfo di Napoli). Annali di Botanica 54: 7–169.
- Rota L (1853) Prospetto della Flora della della Provincia di Bergamo. Tip. Mazzoleni, Bergamo.
- Sallustio C (1950) Erborizzazioni a Bosco Marinelli (Ruvo di Puglia). Giornale Botanico Italiano 57(1–2): 300–302.
- Stinca A, Musarella CM, Rosati L, Laface VLA, Licht W, Fanfarillo E, Wagensommer RP, Galasso G, Fascetti S, Esposito A, Fiaschi T, Nicoletta G, Chianese G, Ciaschetti G, Salerno G, Fortini P, Di Pietro R, Perrino EV, Angiolini C, De Simone L, Mei G (2021) Italian vascular flora: new findings, updates and exploration of floristic similarities between regions. Diversity 13(11): 600. <https://doi.org/10.3390/d13110600>
- Torre S, Sebastiani F, Burbui G, Pecori F, Pepori AL, Passeri I, Ghelardini L, Selvaggi A, Santini A (2022) Novel insights into refugia at the southern margin of the distribution range of the endangered species *Ulmus laevis*. Frontiers in Plant Science 13: 826158. <https://doi.org/10.3389/fpls.2022.826158>
- WCSP (2022) World Checklist of Selected Plant Families. Facilitated by the Royal Botanic Gardens, Kew. <http://wcsp.science.kew.org/> [Accessed 15.09.2022]
- Zodda G (1954) La Flora Teramana. Webbia 10(1): 1–317. <https://doi.org/10.1080/00837792.1954.10669624>

Supplementary material I

Supplementary data

Authors: Fabrizio Bartolucci, Gabriele Galasso

Data type: Species data

Explanation note: 1. Nomenclatural updates; 2. Note updates; 3. Distribution updates; 4. Synonyms, misapplied or included names.

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